INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2005/001155

			2003/001133		
A. CLASSIFICATION OF SUBJECT MATTER Int.Cl ⁷ H01M4/86, 8/10					
According to International Patent Classification (IPC) or to both national classification and IPC					
B. FIELDS SEARCHED					
Int.Cl ⁷	nentation searched (classification system followed by cla H01M4/86-4/96, 8/10				
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Jitsuyo Shinan Koho 1922-1996 Jitsuyo Shinan Toroku Koho 1996-2005 Kokai Jitsuyo Shinan Koho 1971-2005 Toroku Jitsuyo Shinan Koho 1994-2005					
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)					
C. DOCUMEN	NTS CONSIDERED TO BE RELEVANT				
Category*	Citation of document, with indication, where app	· · · · · · · · · · · · · · · · · · ·	Relevant to claim No.		
E,A	JP 2005-100780 A (Toyota Moto 14 April, 2005 (14.04.05), Par. Nos. [0018] to [0020], [(Family: none)	-	1-14		
A	JP 10-55807 A (Aisin Seiki Co 24 February, 1998 (24.02.98), Par. Nos. [0013], [0028] to [1 to 4 (Family: none)		1-14		
A	JP 2003-100308 A (Mitsubishi Ltd.), 04 April, 2003 (04.04.03), Par. No. [0011] Fig. 1 (Family: none)	Heavy Industries,	1-14		
X Further documents are listed in the continuation of Box C. See patent family annex.					
"A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is		"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art "&" document member of the same patent family			
Date of the actual completion of the international search 25 April, 2005 (25.04.05)		Date of mailing of the international search report 17 May, 2005 (17.05.05)			
Name and mailing address of the ISA/ Japanese Patent Office		Authorized officer			
Facsimile No.	i	Telephone No.			

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2005/001155

		1/012	005/001155
C (Continuation).	DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages		Relevant to claim No.
А	JP 2003-168442 A (Honda Motor Co., Ltd.), 13 June, 2003 (13.06.03), Par. Nos. [0026] to [0030], [0040] & US 2003/0134181 Al & DE 10256451 Al		1-14
А	JP 2003-80077 A (Denso Corp.), 18 March, 2003 (18.03.03), Par. Nos. [0041], [0061]; Fig. 1 & US 2003/0004054 A1		1-14
A	JP 10-85586 A (Toshiba Corp.), 07 April, 1998 (07.04.98), Par. No. [0011]; Fig. 1 (Family: none)		1-14